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Water Supply Outlook For Nevada

U.S. NAT'L AGRICULTURE
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SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION
AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

AS OF
Feb. 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTAIN, NEAR WEST FORK OF HYALITE CREEK, MONTANA

Published by Soil Conservation Service

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.




WATER SUPPLY OUTLOOK FOR NEVADA

**AND
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**



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All averages for 1963-77 period.

W A T E R S U P P L Y O U T L O O K
F O R N E V A D A

*
* WATER SUPPLY PROSPECTS FOR THE COMING SEASON ARE GOOD. SNOW
* MEASUREMENTS TAKEN AROUND FEBRUARY 1, 1983 SHOW AVERAGE WATER
* CONTENTS RANGING FROM 122 PERCENT OF AVERAGE IN EASTERN NEVADA
* TO 160 PERCENT IN THE WALKER RIVER DRAINAGE. THE HUMBOLDT IS
* 122 PERCENT OF THE FEBRUARY 1 AVERAGE WATER CONTENT, WITH THE
* SNAKE AT 123 PERCENT, THE OWYHEE AT 137 PERCENT, THE CARSON 142
* PERCENT, AND THE TAHOE-TRUCKEE AT 146 PERCENT. THE SNOWPACK
* PERCENTAGES IN 1983 ARE VERY SIMILAR TO THE PERCENTAGES OF SNOW-
* PACK THAT EXISTED IN 1982 AT THIS TIME OF YEAR WITH THE CARSON-
* WALKER BASIN AVERAGE EXACTLY THE SAME AT 149 PERCENT OF THE
* FEBRUARY 1 AVERAGE. RESERVOIR STORAGE IS EXCELLENT AT 121
* PERCENT OF AVERAGE IN THE SEVEN MAJOR RESERVOIRS. THIS DOES NOT
* INCLUDE 50,000 ACRE FEET THAT WAS RELEASED FROM LAKE TAHOE TO
* MAKE ROOM FOR THE SNOWMELT RUNOFF.
*

SIERRA EAST SLOPE

The increase in snowpack during January was due mainly to storms occurring at the end of the month. Weather during January was basically clear although cold at times. As a result the snowpack is down substantially from last month and is now 146 percent of average on the Tahoe-Truckee drainage and 149 percent of average on the Carson-Walker drainages. These percentages are very similar to last year and also February 1, 1971. Snowpack figures are still in the upper 10 percent of long term records. The snowpack is again distributed very unevenly, as it was last month, with the low elevation snow sites about 172 percent of average and the high elevation snow courses 141 percent of average. Leavitt Meadows, in the Walker Basin at an elevation of 7,200 feet, is currently 172 percent of average as compared to 151 percent of average last year. Glenbrook #2 is well above average at 206 percent as compared to 108 percent of average last year. Rainstorms occurring in December of 1982 removed much of the low elevation snow accounting for last year's low percentage.

Precipitation at the higher elevation has been 119 percent of average and 73 percent of last year, and has occurred in the form of snow more frequently this year than in 1982.

Snowpack and precipitation accumulation for the Sierra are shown on page 17, 18, and 19. Page 18 shows the effects of precipitation on runoff by comparing the Ebbetts Pass SNOTEL graph to the runoff of the East Fork of the Carson River.

Reservoir storage is improving and has increased from 1,070,000 acre feet on January 1 to 1,114,000 acre feet on February 1 in the seven major reservoirs. Lake Tahoe increased approximately 16,000 acre feet this month which is about 47 percent of its normal January increase, but 51,000 acre feet was released from Lake Tahoe to make room for the expected snowmelt runoff. Reservoir storage in the Sierra is 137 percent of last year's usable storage and 130 percent of average. Lahontan Reservoir is 96 percent of last year and 90 percent of average.

HUMBOLDT BASIN

Snow water contents at this measurement indicate a good water supply for the Upper Humboldt at 122 percent of the February 1 average snowpack. The Lower Humboldt is also good at 157 percent of average.

Water contents are behind last year on the Upper Humboldt at 86 percent but are ahead of last year on the Lower Humboldt at 104 percent. The snowpack at low elevations is substantially ahead of last year at 122 percent.

The Dorsey Basin precipitation and snowpack accumulations appear on page 20.

Rye Patch Reservoir now contains 175,000 acre feet of water as compared to 58,000 last year at this time. An increase of 7,000 acre feet occurred during January which is 140 percent of average.

SNAKE AND OWYHEE BASIN

Snow measurements in northeastern Nevada indicate a good snowpack exists in the Owyhee and Snake Basins. The Owyhee is 137 percent of average but somewhat behind last year at 87 percent. The Snake is 123 percent of average and 80 percent of last year.

High elevation precipitation has been 81 percent of average but as in the Sierra a very high percentage has fallen as snow. Last year's precipitation was exceptional at 131 percent of average. 1983 precipitation compared to 1982 is only 67 percent of the 1982 accumulations.

Wild Horse Reservoir contains 57,000 acre feet which is 190 percent of average and 228 percent of last year's content of 25,000 acre feet.

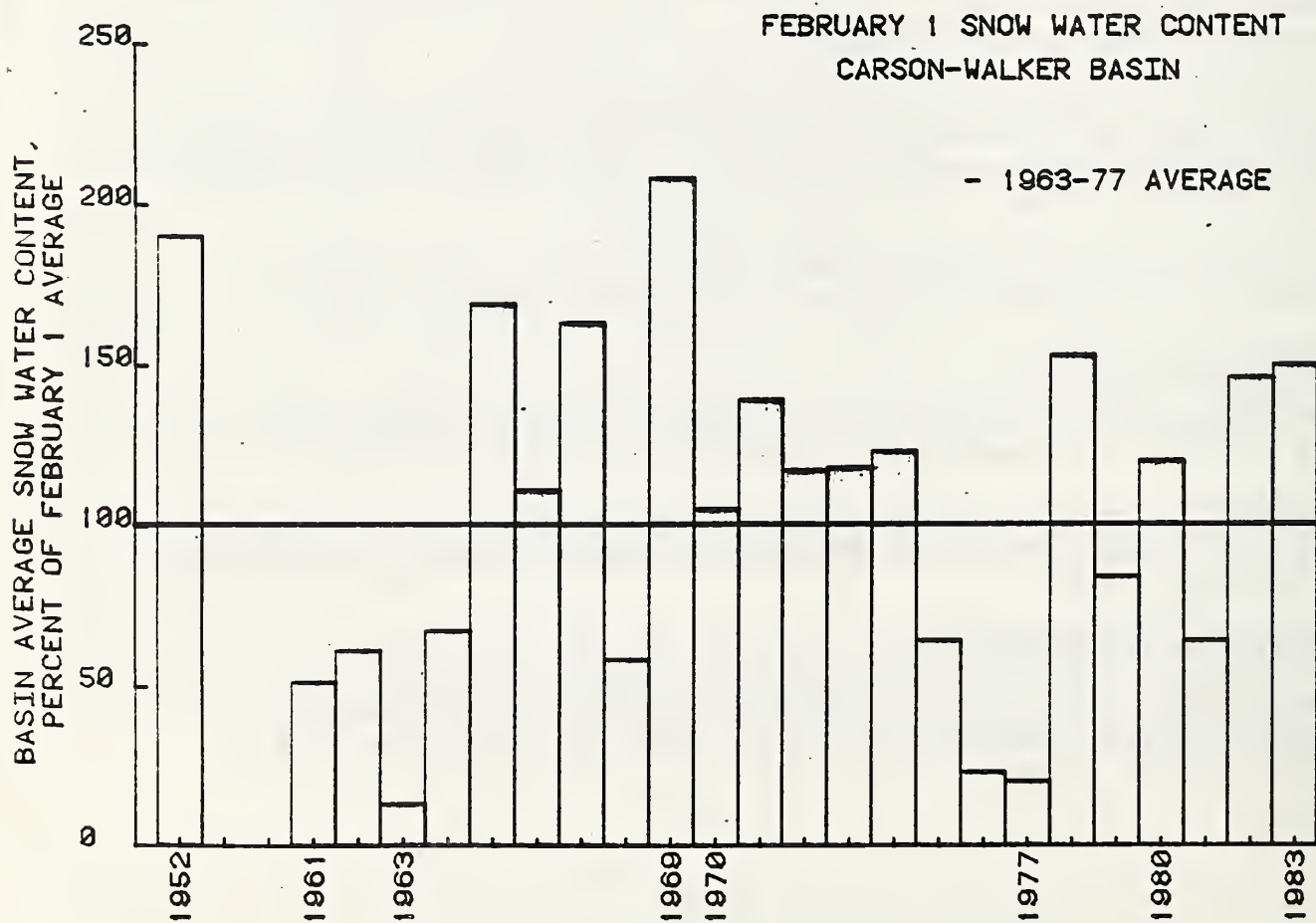
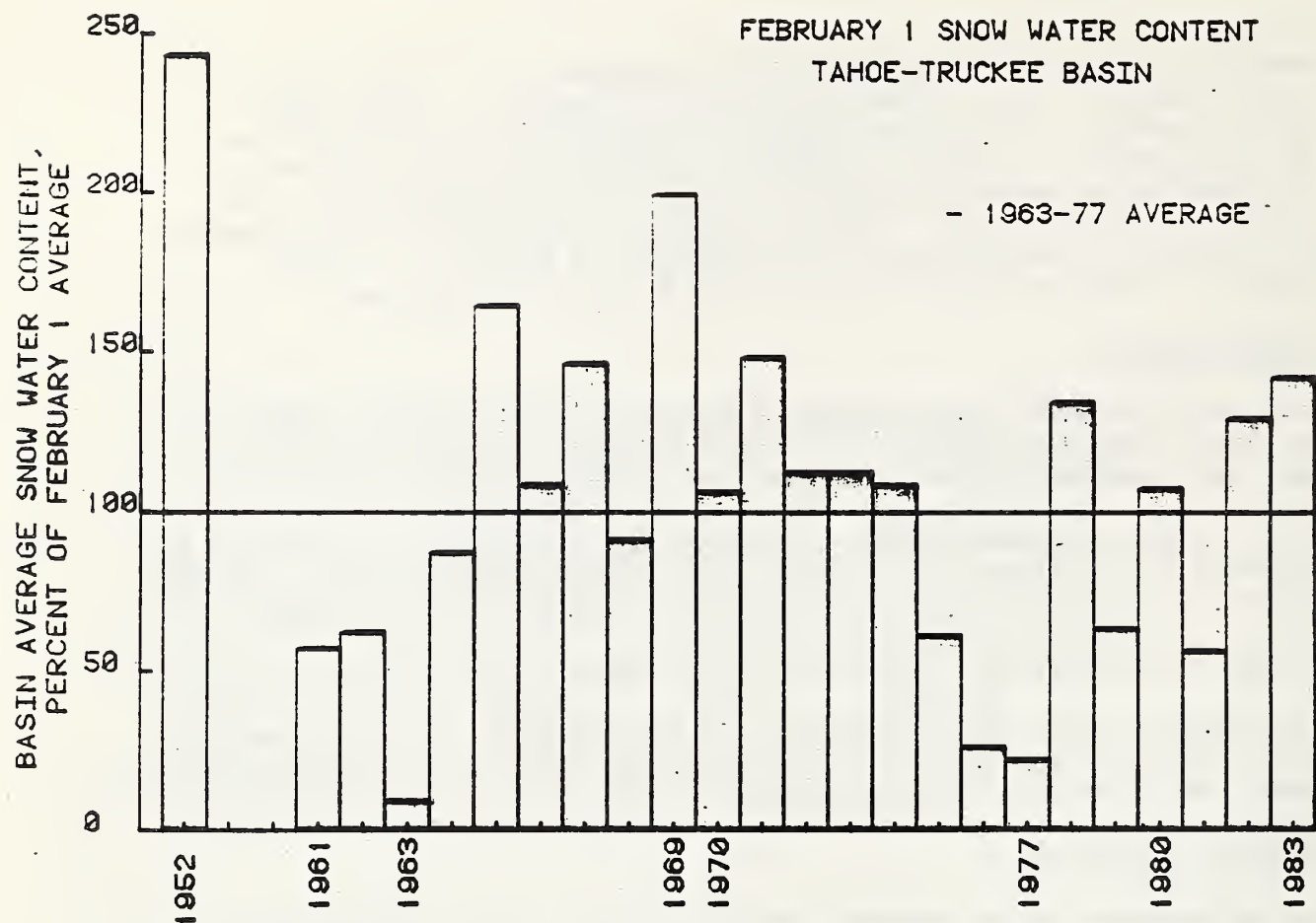
NORTHERN GREAT BASIN

Snow measurements in this portion of Nevada indicate a good water supply. This snowpack is 126 percent of average and 91 percent of last year.

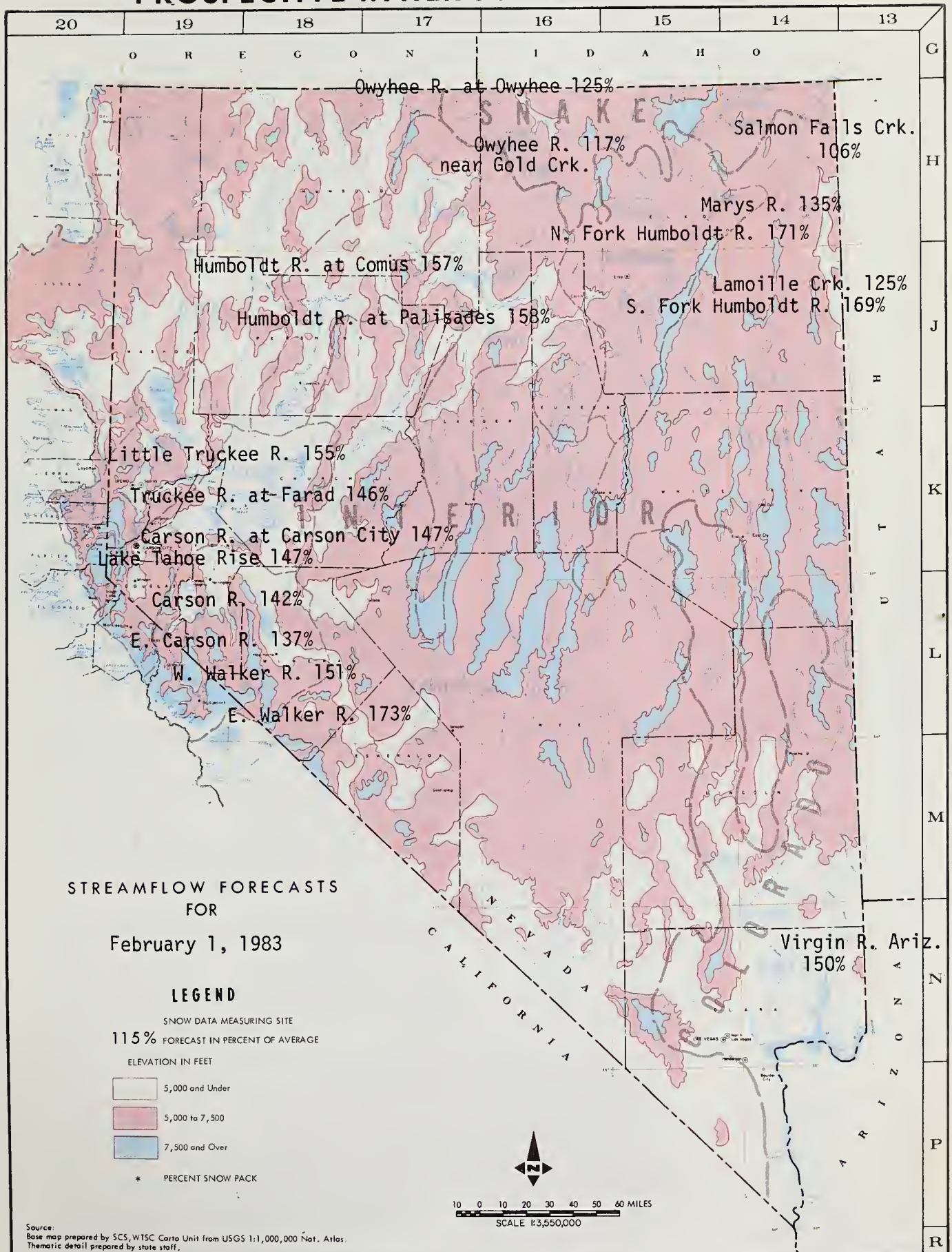
Precipitation at high elevation is 79 percent of average and 71 percent of last year. Again, the pattern has been for a high percent of precipitation in the form of snow.

EASTERN AND SOUTHERN NEVADA

Snowpack measurements, although limited this month, indicate an above average snowpack. Next month all of the sites will be measured to give a more complete analysis.



PROSPECTIVE WATER SUPPLY FOR NEVADA



INDEX TO NEVADA SNOW COURSES

(By Basins)

Refer to the map on the preceding page for Snow Course locations.

NUMBER NAME SEC. TWP. RGE. ELEV.

SNAKE RIVER BASIN

SNAKE RIVER

15H01SA	Bear Creek	31	46N	58E	7800
15H02	Fox Creek	33	46N	58E	6800
15H13SA	Goat Creek	31	46N	60E	8800
15H15A	Hummingbird Springs	6	45N	60E	8945
15H20a	Merritt Mountain	10	46N	54E	7000
15H14S	Pole Creek Ranger Station	13	46N	59E	8330
15H18a	Red Point	15	47N	61E	7940
15H035A	Seventy Six Creek	6	44N	58E	7100
15H19a	Stag Mountain	32	41N	58E	7800

OWYHEE RIVER

15H04S	Big Bend	30	45N	56E	6700
15H06a	Columbia Basin	31	44N	53E	6650
16H08a	Fawn Creek	2	45N	52E	7000
16H10S	Fawn Creek #2	2	45N	52E	7050
15H05	Gold Creek	32	45N	56E	6600
16H01	Jack Creek, Lower	18	42N	53E	6800
16H02A	Jack Creek, Upper	9	42N	53E	7250
16H09S	Jack Creek #2, Upper	9	42N	53E	7250
16H04S	Jacks Peak	21	42N	53E	8423
16H05S	Laurel Draw	20	45N	53E	6700
17G04a	Louse Canyon (OR)	27	40S	44E	6440
15H09S	Taylor Canyon	35	39N	53E	6200

INTERIOR

UPPER HUMBOLDT RIVER

15J17a	American Beauty	32	31N	58E	7800
15J125A	Corral Canyon	27	28N	57E	8500
15J01S	Oorsey Basin	28	35N	60E	8100
15J03	Ory Creek	5	34N	60E	6500
15H07P	Fry Canyon	31	43N	54E	6700
15J09S	Green Mountain	23	29N	57E	8000
15J10	Harrison Pass #1	9	28N	57E	6600
15J11	Harrison Pass #2	16	28N	57E	7400
15J04	Lamoille #1	15	32N	58E	7100
15J06S	Lamoille #3	24	32N	58E	7700
15J08	Lamoille #5	31	32N	59E	8700
15J20	Pole Canyon #2	6	34N	61E	7700
15J16a	Robinson Lake	23	33N	59E	9200
15H06P	Rodeo Flat	36	43N	53E	6800
15J02	Ryan Ranch	1	34N	59E	5800
15J19	Smith Creek	26	30N	57E	7600
15J22a	Tent Mountain, Lower	26	36N	60E	7000
15J23a	Tent Mountain, Upper	35	36N	60E	8350
15H08	Tremewan Ranch	9	39N	55E	5700
15H10P	Trout Creek, Lower	28	37N	61E	6900
15H11A	Trout Creek, Upper	4	36N	61E	8500

LOWER HUMBOLDT RIVER

17K01	Big Creek Campground	10	17N	43E	6600
17K02	Big Creek Mine	23	17N	43E	7600
17K04S	Big Creek Summit	35	17N	43E	8700
17K03	Big Creek, Upper	26	17N	43N	7800
17H02AS	Buckskin, Lower	25	45N	39E	6700
17H01A	Buckskin, Upper	11	45N	39E	8200
17L01	Corral, Lower	12	11N	40E	7500
17L02	Corral, Upper	20	11N	41E	8000
17J02	Golconda #2	22	35N	39E	6030
17H045A	Granite Peak	22	44N	39E	7800
17H055A	Lamance Creek	13	42N	38E	6000
17H03AP	Martin Creek	13	44N	38E	6700
16H03AP	Midas	18	39N	46E	7200
16H07a	Toe Jam	29	40N	50E	7700

EASTERN NEVADA

14L01	Baker #1	29	13N	69E	7950
14L02	Baker #2	30	13N	69E	8950
14L03	Baker #3	25	13N	68E	9250
14K025A	Berry Creek	26	17N	65E	9100
14K01	Bird Creek	34	19N	65E	7500
14K09a	Oefiance Mines	9	14N	63N	9200
15J155A	Hole-in-Mountain	6	35N	61E	7900
14K08	Kalamazoo Creek	34	20N	65E	7400
14K03	Murray Summit	25	16N	62E	7250
15K01	Robinson Summit	34	18N	61E	7600
14K07	Silver Creek #2	30	16N	69E	8000
14K055A	Ward Mountain #2	25	15N	62E	9200

CENTRAL GREAT BASIN

18M02	Campito Mountain (CA)	19	5S	35E	10200
18M05a	Chiatovich Flat (CA)	32	2S	34E	10500
15N02	Clark Canyon	8	19S	56E	9000
18M01	Montgomery Pass	4	1N	33E	7100
18M03a	Pinchot Creek (CA)	28	1N	33E	9300
18M04a	Piute Pass (CA)	33	4S	33E	11700
15N01	Trough Springs	23	18S	55E	3500

NORTHERN GREAT BASIN

19H01a	Bald Mountain	17	45N	21E	6720
20H05	Barber Creek (CA)	23	39N	16E	6500
20H06S	Cedar Pass (CA)	12	43N	14E	7100
18G06a	Oenio Creek (OR)	14	41S	34E	6000
18H01SA	Oisaster Peak	8	47N	34E	6500
20H03a	Oismal Swamp (CA)	31	48N	17E	7000
20H11S	Oismal Swamp #2 (CA)	31	48N	17E	7050
20H07	Eagle Peak (CA)	35	40N	15E	7200
19H03P	49 Mountain	7	42N	19E	6000
19H02	Hays Canyon	1	39N	18E	6400
19H04a	Little Bally Mountain	8	45N	19E	6000
20H09P	Mt. Bidwell (CA)	6	47N	16E	7200
20H10	North Star (CA)	13	47N	16E	6200
17G05a	Oregon Canyon (OR)	9	40S	40E	7240
17H06a	Quinn Ridge	9	47N	41E	6300
20H04	Reservation Creek (CA)	12	46N	15E	5900
18G05a	Trout Creek (OR)	10	41S	38E	7800

NUMBER NAME SEC. TWP. RGE. ELEV.

LAKE TAHOE

20L06S	Echo Peak (CA)	35	12N	17E	7800
20L0S	Echo Summit (CA)	6	11N	18E	7450
20L10S	Fallen Leaf (CA)	3	13N	17E	6300
19L02	Free! Bench (CA)	36	12N	18E	7300
19K06	Glenbrook #2	13	14N	18E	6900
19L03S	Hagan's Meadow (CA)	36	12N	18E	8000
19L24S	Heavenly Valley (CA)	1	12N	18E	8850
20L04	Lake Lucille (CA)	28	12N	17E	8200
19K04S	Marlette Lake	18	15N	19E	8000
20L03	Richardsons #2 (CA)	6	12N	18E	6500
20L01	Rubicon #1 (CA)	6	13N	17E	8100
20L02S	Rubicon #2 (CA)	6	13N	17E	7500
20K16	Tahoe City (CA)	6	15N	17E	6250
20K27S	Tahoe City Cross (CA)	1	15N	16E	6750
19L01	Upper Truckee (CA)	21	12N	18E	6400
20K17	Ward Creek #2 (CA)	21	15N	16E	7000
20K25S	Ward Creek #3 (CA)	21	15N	16E	6750

TRUCKEE RIVER

20K14	Boca #2 (CA)	28	18N	17E	5900
20K22	Brockway Summit (CA)	3	17N	16E	7100
20K28	Castle Creek (CA)	23	17N	14E	7400
20K21	Donner Park #2 (CA)	18	17N	16E	6000
20K10	Donner Summit (CA)	25	17N	14E	6900
20K07*	Fordyce Lake (CA)	34	18N	13E	6500
20K08*	Furnace Flat (CA)	10	17N	13E	6700
20K04S	Independence Camp (CA)	34	19N	15E	7000
20K03S	Independence Creek (CA)	14	19N	15E	6500
20K05S	Independence Lake (CA)	9	18N	15E	8450
19K03	Little Valley	17	16N	19E	6300
20K02S	Mt. Rose	7	17N	19E	9000
19K07S	Mt. Rose Ski Area	30	17N	19E	9000
20K06	Sage Hen Creek (CA)	7	18N	16E	6500
20K19	Squaw Valley #2 (CA)	6	15N	16E	7500
20K30S	Squaw Valley Gold Coast (CA)	36	16N	15E	8200
20K13S	Truckee #2 (CA)	22	17N	16E	6400
20K02*	Webber Lake (CA)	29	19N	14E	7000
20K01*	Webber Peak (CA)	30	19N	14E	8000

CARSON RIVER

19L05S	Blue Lakes (CA)	30	9N	19E	8000
19L04	Carson Pass, Upper (CA)	22	10N	18E	8600
19K05	Clear Creek	6	14N	19E	7300
19L19A	Ebbetts Pass (CA)	17	8N	20E	8700
19L32S	Ebbetts Pass #2 (CA)	17	8N	20E	8700
19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
19L40A	Monitor Pass (CA)	31	9N	21E	8350
19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
19L06SA	Poison Flat (CA)	25	8N	21E	7900
19L39S	Spratt Creek (CA)	31	10N	20E	6100
19L31S	Wet Meadows #2 (CA)	26	9N	19E	8100
19L18a	Wet Meadows Lake (CA)	26	9N	19E	8050
19L20a	Wolf Creek (CA)	35	8N	20E	8000

WALKER RIVER

19L11	Buckeye Forks (CA)	20	4N	23E	8500
19L10	Buckeye Roughs (CA)	15	4N	23E	7900
19L12	Center Mountain (CA)	4	3N	23E	9400
19L30A	Center Mountain (CA)	4	3N	23E	9400
19L08S	Leavitt Lake (CA)	13	5N	21E	9400
19L38	Leavitt Meadows (CA)	4	5W	22E	7200
19L17SA	Lobdell Lake (CA)	20	7N	24E	9200
19L34	Sawmill Ridge (CA)	17	3N	24E	8750
19L07	Sonora Pass (CA)	1	5N	21E	8800
19L23S	Sonora Pass Bridge (CA)	6	5N	22E	8800
19M01*	Tioga Pass (CA)	30	1N	25E	9900
19L13	Virginia Lakes (CA)	5	2N	25E	9500
19L22S	Virginia Lakes Ridge (CA)	32	2N	25E	9200
19L09	Willow Flat (CA)	21	5N	23E	8250

COLORADO

LOWER COLORADO RIVER

15L02a	Corduroy Flat	14	13N	58E	8720
14M04a	Ella Mountain	35	5S	67E	7050
15N05	Kyle Canyon	26	19S	56E	8200
15N03	Lee Canyon #2	9	19S	56E	9000
15N08	Lee Canyon #3	10	19S	56E	8500
14M01a	Mathew Canyon	10	5S	70E	6000
14L04a	Mt. Wilson	27	5N	68E	8050
14M02a	Pine Canyon	23	6S	69E	6200
15N07	Rainbow Canyon #2	6	20S	57E	8100
15L01	White River #1	31	13N	59E	7400
15L03a	White River	31	13N	59E	7440

LEGEND

NUMBERING SYSTEM (EXAMPLE)

19K04	Snow Course Only
19K04S	Snow Course with SNOTEL
19K04A	Snow Course and Aerial Marker
19K04P	Snow Course and Storage Precipitation Gage

Lower case letter "a" indicates no snow course, only an Aerial Marker.
SNOTEL has telemetered data for snow pillow, precipitation gage, and temperature. * Adjacent basin.

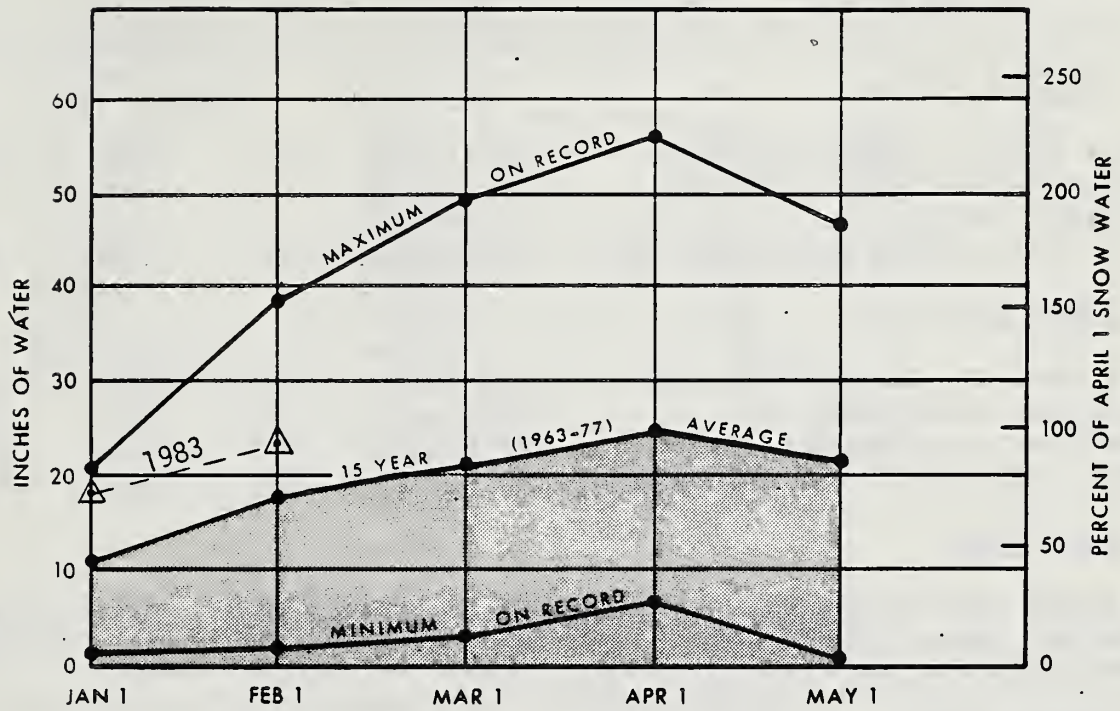
WINTER SNOWPACK

TAHOE, TRUCKEE, CARSON & WALKER BASINS

CALIFORNIA - NEVADA

1983

Data based on 9 long term Snow Courses



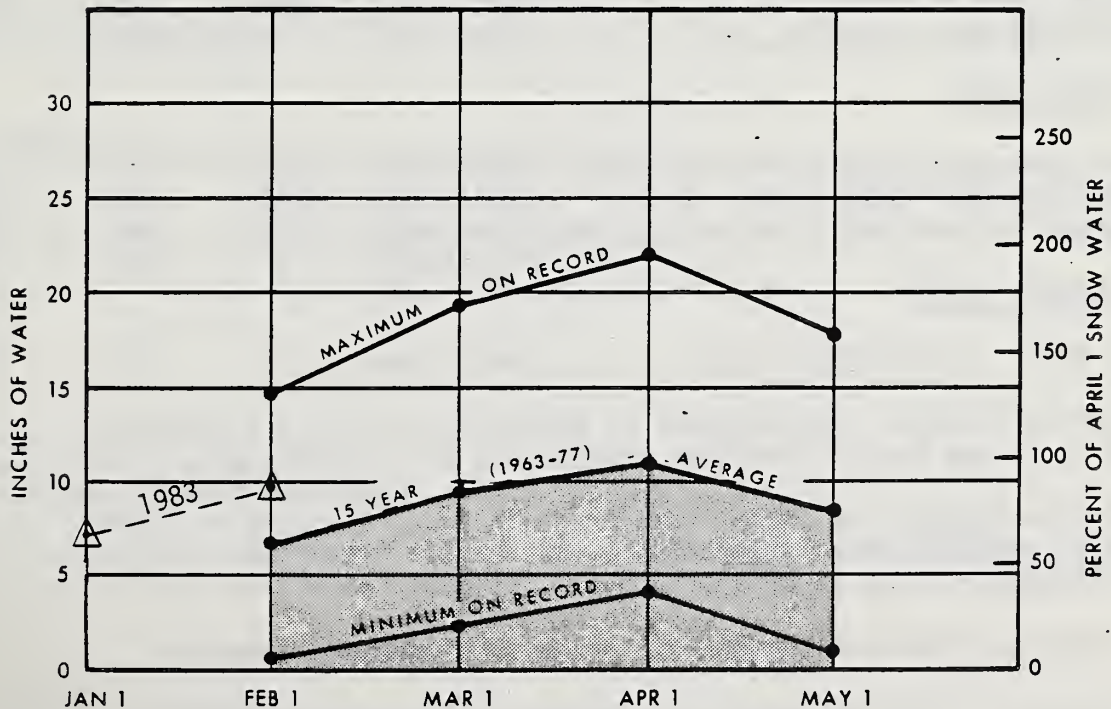
WINTER SNOWPACK

UPPER HUMBOLDT & SNAKE BASINS

NEVADA

1983

Data based on 13 selected Snow Courses



STREAMFLOW FORECASTS (Thousand Acre Feet) as of: February 1, 1983

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1963-77 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
<u>TRUCKEE RIVER</u>				
Truckee River at Farad, CA. 1/	April-July	400	146	273
Lake Tahoe Rise in feet (assuming gates closed)	April 1 to high	2.1	147	1.42
Little Truckee River above Boca, CA.	April-July	135	155	86
<u>CARSON RIVER</u>				
East Carson near Gardnerville, NV.	April-July	250	137	187
West Carson at Woodfords, CA.	April-July	75	142	53
Carson River near Carson City, NV.	April-July	270	147	183
Carson River near Ft. Churchill, NV.	April-July	250	149	167
<u>WALKER RIVER</u>				
East Walker near Bridgeport, CA. 2/	April-Aug.	120	173	69
West Walker near Little Walker near Coleville, CA.	April-July	220	151	146
<u>HUMBOLDT RIVER</u>				
Lamoille Creek near Lamoille, NV.	April-July	35	125	29
S. Fork Humboldt above Dixie Creek, NV.	April-July	125	169	73
Marys River above Hot Springs, NV.	April-July	50	135	37
N. Fork Humboldt at Devils Gate, NV.	April-July	60	171	35
Humboldt River at Palisade, NV.	April-July	350	158	221
Humboldt River at Comus, NV.	April-July	280	157	178
Martin Creek near Paradise, NV.	April-July	25	167	15
<u>SNAKE RIVER</u>				
Owyhee River near Gold Creek, NV. 3/	April-July	27	117	23
Owyhee River near Owyhee, NV. 3/	April-July	100	125	80
Salmon Falls Creek near San Jacinto, NV.	March-July	95	106	90
	March-July	99	104	95
<u>COLORADO RIVER</u>				
Virgin River at Littlefield, AZ.	April-June	72	150	48

NOTE: Streamflow forecasts which appear in this bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service.

1/ Observed flow plus change in storage in Boca, Stampede and Posser Reservoirs, Donner, Independence, and Martis Creek Lakes, and minus the flow at Truckee River at Tahoe City, California.

2/ Observed flow plus change in storage in Bridgeport Reservoir.

3/ Observed flow plus change in storage in Wild Horse Reservoir.

+ 1963-1977 period.

RESERVOIR STORAGE (Thousand Acre Feet) AS OF February 1, 1983

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
Owyhee	Wild Horse	72	57	25	30
Lower Humboldt	Rye Patch	194	175	58	111
Colorado	Mohave	1,810	1,708	1,643	1,660
Colorado	Mead	26,159	23,937	23,083	17,580
Tahoe	Tahoe	745	592	434	479
Truckee	Boca	41	26	32	19
Truckee	Stampede**	222	202	124	118*
Truckee	Prosser***	30	9	9	7
Carson	Lahontan	295	194	201	214
West Walker	Topaz	59	42	33	37
East Walker	Bridgeport	42	28	21	31

* Adjusted average.
 ** Storage began August 1, 1969.
 *** Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October 1	1,172	358	786
January 1	1,070	688	844
February 1	1,114	804	920
March 1		935	968
April 1		1,047	1,010
May 1		1,148	1,032

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.

TOTAL USABLE CAPACITY 1,448

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Peak flow forecast not issued until March 1, 1983.		

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Low flow forecasts not issued until March 1, 1983.			

SATELLITE SNOW COVER

TAHOE-TRUCKEE, CARSON AND WALKER BASINS

FEBRUARY 1, 1983



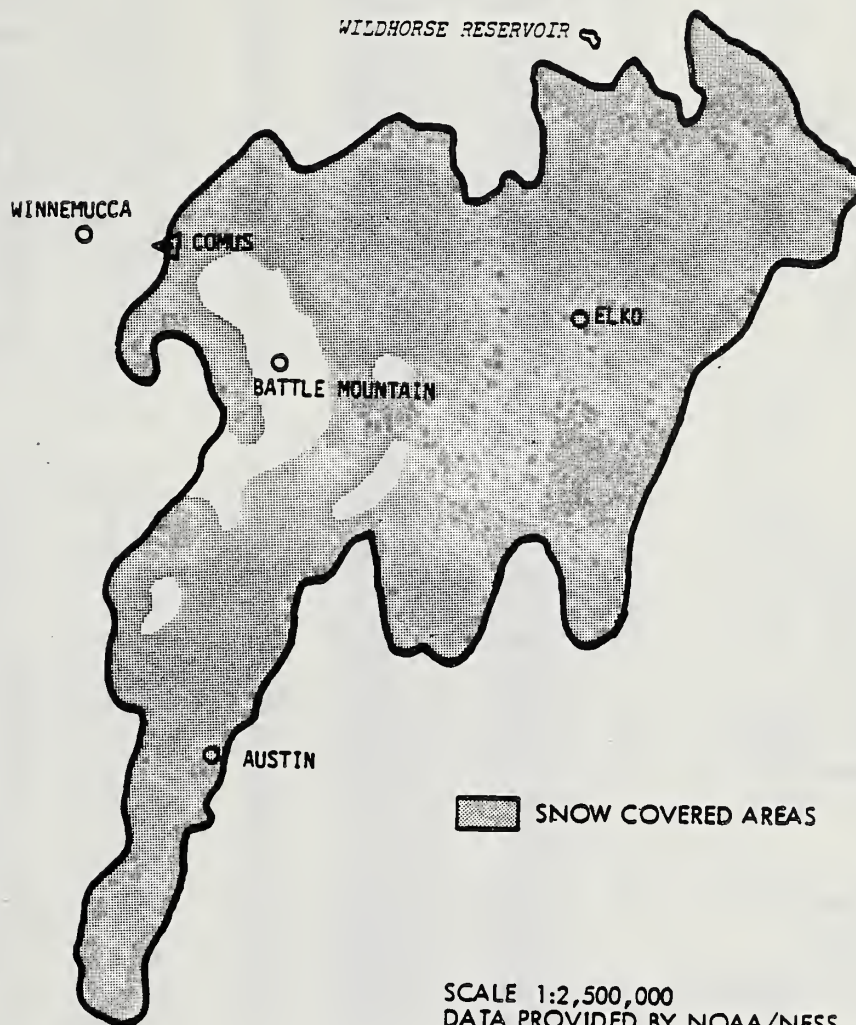
SCALE 1:2,000,000
DATA PROVIDED BY NOAA/NESS
WASHINGTON D.C.

<u>BASIN</u>	<u>THIS YEAR</u>	<u>PERCENT SNOW COVER</u>	<u>LAST YEAR</u>	<u>PERCENT SNOW COVER</u>
TAHOE-TRUCKEE	November 14, 1982	10.6%	November 29, 1981	56.0%
	December 28, 1982	50.0%	January 1, 1982	56.0%
	January 28, 1983	39.8%	January 31, 1982	48.0%
CARSON	November 14, 1982	8.2%	November 29, 1981	30.0%
	December 28, 1982	25.0%	January 1, 1982	24.0%
	January 28, 1983	19.2%	January 31, 1982	48.0%
WALKER	November 14, 1982	16.3%	November 29, 1981	77.0%
	December 28, 1982	46.0%	January 1, 1982	40.0%
	January 28, 1983	52.0%	January 31, 1982	43.0%

SATELLITE SNOW COVER

HUMBOLDT RIVER ABOVE COMUS, NEVADA

FEBRUARY 1, 1983



SCALE 1:2,500,000
DATA PROVIDED BY NOAA/NESS
WASHINGTON, D.C.

<u>THIS YEAR</u>	<u>PERCENT SNOW COVER</u>	<u>LAST YEAR</u>	<u>PERCENT SNOW COVER</u>
November 23, 1982	45.1%	November 26, 1981	24.0%
		November 29, 1981	68.0%
		December 7, 1981	7.0%
		December 16, 1981	18.0%
		December 22, 1981	58.0%
December 28, 1982	87.0%	January 1, 1982	97.0%
		January 6, 1982	100.0%
January 28, 1983	94.2%	January 30, 1982	88.0%

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Average †

LAKE TAHOE

Echo Peak (CA)	7,800	1/25/83	105	36.4	37.3**	27.5e
Echo Summit (CA)	7,450	1/28/83	103	31.4	28.3	23.7
Fallen Leaf (CA)	6,300	1/25/83	36	11.0	11.1	6.6e
Freel Bench (CA)	7,300	1/25/83	43	11.8	11.4	9.1
Glenbrook #2	6,900	1/31/83	55	16.5	8.7	8.0
Hagan's Meadow (CA)	8,000	1/25/83	70	18.1	13.9	12.7
Heavenly Valley (CA)	8,800	1/25/83	85	27.2	27.1	17.9e
Marlette Lake	8,000	1/25/83	78	23.4	16.3	14.2
Richardson #2 (CA)	6,500	1/26/83	51	15.7	14.1	11.2
Rubicon #2 (CA)	7,500	1/31/83	94	31.5**	25.3**	-
Tahoe City Cross (CA)	6,750	1/29/83	82	24.4	15.9	14.2e
Upper Truckee (CA)	6,400	1/25/83	30	9.0	10.0	7.4
Ward Creek #2 (CA)	7,000	1/25/83	111	37.5	35.0	26.5
Ward Creek #3 (CA)	6,750	1/25/83	104	34.8	28.3	23.7e

TRUCKEE RIVER

Big Meadow	8,300	1/31/83	78	26.5**	23.0**	-
Boca #2 (CA)	5,900	1/30/83	32	8.6	6.8	5.1
Brockway Summit (CA)	7,100	1/28/83	78	23.1	11.8	13.5
Castle Creek (CA)b	7,400	1/28/83	149	49.7	49.1	34.6
Donner Park #2 (CA)	6,000	1/30/83	60	16.6	12.7	12.0
Donner Summit (CA)	6,900	2/01/83	124	40.6	29.8	23.3*
Fordyce Lake (CA)b	6,500	1/31/83	126	44.5	26.0	20.7
Furnace Flat (CA)b	6,700	1/31/83	143	48.0	32.8	24.9
Independence Camp (CA)	7,000	1/25/83	64	18.1	13.3	15.6
Independence Creek (CA)	6,500	1/25/83	45	12.9	9.0	9.6
Independence Lake (CA)	8,450	1/25/83	100	33.0	35.5	27.0e
Little Valley	6,300	1/25/83	19	4.1	5.6	-
Mount Rose	9,000	1/31/83	91	30.9**	33.5**	20.1e
Mount Rose Ski Area	8,850	1/26/83	124	42.2	50.4	26.7*
Sage Hen Creek (CA)	6,500	1/28/83	66	19.4	12.5	12.4
Squaw Valley #2 (CA)	7,500	1/25/83	131	44.0	43.5	32.9
Squaw Valley Gold Coast (CA)	8,200	1/25/83	139	45.8**	47.0**	-
Truckee #2 (CA)	6,400	1/31/83	63	19.0**	11.5	10.2

CARSON RIVER

Blue Lakes (CA)	8,000	2/01/83	115	38.0	31.4	21.5
Carson Pass, Upper (CA)	8,600	1/25/83	101	33.1	35.0	22.8
Clear Creek	7,300	1/25/83	45	10.2	8.4	7.4e
Ebbetts Pass AM (CA)	8,700	1/25/83	96	32.6a	39.6a	21.3
Ebbetts Pass #2 (CA)	8,700	1/25/83	99	33.5	39.3	25.7e
Fish Valley, Upper AM (CA)	8,050	1/25/83	57	16.0a	9.5a	10.3
Monitor Pass AM (CA)	8,350	1/25/83	69	20.0a	13.5a	-
Poison Flat #2 (CA)	7,900	1/25/83	67	19.3	15.3	11.1
Spratt Creek (CA)	6,100	1/26/83	24	9.0	9.0**	6.0e
Wet Meadows Lake AM (CA)	8,050	1/25/83	76	24.3a	25.8a	17.7
Wet Meadows #2	8,050	1/25/83	109	35.2	33.7**	26.4e
Wolf Creek AM (CA)	8,000	1/25/83	108	32.4a	25.9a	20.4

+ 1963-1977 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

WALKER RIVER

Center Mountain	9,400	1/25/83	125	38.1	37.3	22.2e
Leavitt Lake (CA)	9,400	1/25/83	125	46.8	50.6	29.6e
Leavitt Meadows (CA)	7,200	1/25/83	49	11.4	10.0	6.6e
Lobdell Lake (CA)	9,200	1/25/83	69	18.6	17.3	11.5e
Sawmill Ridge (CA)	8,750	1/25/83	72	19.8	18.4	16.4e
Sonora Pass (CA)	8,800	1/25/83	84	26.7	26.7	16.4
Sonora Pass Bridge (CA)	8,800	1/25/83	82	26.0	27.8**	16.4
Tioga Pass (CA)	9,900	N/S				17.4
Virginia Lakes (CA)	9,500	1/25/83	65	16.7	17.5	10.4
Virginia Lakes Ridge (CA)	9,200	1/25/83	64	17.2	17.0	10.4
Willow Flat (CA)	8,250	1/25/83	49	14.3	-	7.3e

NORTHERN GREAT BASIN

Bald Mountain AM (OR)	6,720	1/28/83	13	3.6a	3.1	0.9*
Barber Creek (CA)	6,500	1/27/83	36	10.7	12.9	8.3
Cedar Pass (CA)	7,100	1/26/83	38	11.4	12.0	10.6*
Denio Creek AM (OR)	6,000	N/S			-	0.5*
Disaster Peak	6,500	1/31/83	51	14.4**	12.4a	-
Dismal Swamp #2 (AM)	7,000	1/31/83	71	21.3**	23.7**	-
49 Mountain	6,000	1/28/83	14	4.5	4.1	2.7
Hays Canyon	6,400	1/27/83	15	4.3	4.7	2.8
Little Bally Mountain AM	6,000	1/28/83	19	5.3a	3.1	2.2*
Oregon Canyon AM (OR)	7,240	N/S			3.6	4.0*
Quinn Ridge AM (OR)	6,300	1/28/83	7	2.0a	4.2	1.5*
Reservation Creek (CA)	5,900	1/28/83	31	10.0	10.8	8.0
Trout Creek AM (OR)	7,800	N/S			4.2	4.6*

SNAKE RIVER

Bear Creek	7,800	1/26/83	48	14.8a	18.2	13.6
Boies Reservoir	5,800	N/S			1.1	-
Ford Corral	6,300	N/S			1.6	-
Goat Creek	8,800	1/27/83	36	10.9	16.1	11.9
Jakes Creek	7,000	1/26/83	19	5.1a	6.5	-
Merritt Mountain AM	7,000	1/26/83	18	4.7a	6.2a	4.2*
Pole Creek Ranger Station	8,330	1/28/73	41	12.8	17.9	13.3
Seventy Six Creek	7,100	1/25/83	35	9.9	13.6	7.8
Stag Mountain AM	7,700	1/26/83	24	6.7a	6.7a	3.7*

OWYHEE RIVER

Big Bend	6,700	1/25/83	27	6.7	10.0	6.1
Columbia Basin AM	6,650	1/26/83	33	8.6a	8.3a	6.9
Fawn Creek #2 AM	7,050	1/26/83	56	14.6a	13.0**	-
Gold Creek	6,600	1/25/83	20	4.6	6.0	3.9
Jack Creek, Lower	6,800	N/S				-
Jack Creek, Upper	7,250	1/25/83	33	8.8	9.9	4.2
Jack Creek #2, Upper	7,250	1/25/83	59	19.8	17.6	-
Jacks Peak	8,420	1/25/83	65	20.3	22.5**	-
Laurel Draw	6,700	1/25/83	27	7.1	9.2	5.7*
Louse Canyon AM (OR)	6,440	1/28/83	35	10.5	5.9	2.3*
Taylor Canyon	6,200	1/25/83	27	6.7	6.1	4.0

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average †

UPPER HUMBOLDT RIVER

American Beauty AM	7,800	1/26/83	35	9.1a	5.4a	6.5*
Corral Canyon	8,500	1/26/83	41	11.1	11.0	6.8e
Dorsey Basin	8,100	1/26/83	39	11.9	12.5	7.9e
Draw Creek	7,450	1/26/83	25	6.4a	11.2a	-
Dry Creek	6,500	1/26/83	24	6.2	6.2	2.5e
Fry Canyon	6,700	1/26/83	26	7.7	8.5	5.2
Green Mountain	8,000	1/26/83	42	11.6	11.6	7.1e
Lamoille #1	7,100	1/26/83	35	8.5	5.7	5.7
Lamoille #3	7,700	1/26/83	37	9.0	9.2	8.1
Lamoille #5	8,700	1/26/83	53	16.4	28.6	17.1
Robinson Lake AM	9,200	1/26/83	58	18.0a	36.7a	19.9*
Rodeo Flat	6,800	1/25/83	29	8.4	7.8	4.1
Tent Mountain AM, Lower	7,000	1/26/83	35	9.8a	8.7a	9.3e
Tent Mountain AM, Upper	8,350	1/26/83	50	15.5a	17.0a	16.3e
Tremewan Ranch	5,700	1/25/83	12	2.5	3.8	1.2
Trout Creek, Upper AM	8,500	1/26/83	52	16.1a	11.6a	12.0

LOWER HUMBOLDT RIVER

Big Creek Summit	6,600	1/31/83	60	18.0**	8.8**	10.5e
Buckskin, Lower	6,700	1/30/83	28	8.5*	7.0a	5.3e
Golconda #2	6,000	1/26/83	40	12.0a	-	1.3*
Granite Peak	7,800	1/26/83	54	16.2a	25.2a	10.9
Lamance Creek	6,000	1/26/83	25	7.0a	8.7a	6.2e
Midas AM	7,200	1/26/83	24	6.1a	4.9a	2.1*
Snowstorm Mountain AM	7,420	1/26/83	46	11.7a	-	-
Toe Jam AM	7,700	1/26/83	36	10.1a	9.0a	6.7*

EASTERN NEVADA

Baker #1	7,950	1/26/83	16	3.9	4.9	-
Baker #2	8,950	1/26/83	36	9.5	10.1	-
Baker #3 AM	9,250	1/26/83	31	7.8a	-	9.2
Berry Creek	9,100	1/26/83	51	12.8a	7.5**	-
Bird Creek	7,500	1/26/83	25	4.8	2.0	-
Defiance Mines AM	9,400	1/26/83	60	15.6a	-	12.1*
Hole-in-Mountain	7,900	1/26/83	34	8.5a	28.3	-
Kalamazoo Creek	7,400	1/28/83	35	8.8	6.6	-
Murray Summit	7,250	1/26/83	23	3.7	1.8	-
Robinson Summit	7,600	1/26/83	15	2.6	2.8	-
Silver Creek #2 AM	8,000	1/26/83	23	6.0a	0.1a	4.8*
Ward Mountain #2	7,400	1/26/83	34	8.8a	8.8**	5.1

CENTRAL GREAT BASIN

Montgomery Pass	7,100	2/01/83	13	2.1	0.3	1.1*
Northumberland Mine	8,850	1/31/83	31	3.9	-	-

+1963-1977 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

LOWER COLORADO RIVER

Corduoy Flat AM	8,720	1/26/83	31	7.8a	1.5a	-
Lee Canyon #2	9,000	1/27/83	39	11.2	4.9	-
Lee Canyon #3	8,500	1/27/83	35	9.1	4.3	-
White River AM	7,400	1/26/83	38	9.5a	1.5a	-

DESERT RESEARCH INSTITUTE MEASUREMENTS

TAHOE-TRUCKEE BASIN

Alder Creek	6,960	2/01/83	114	41.7	28.4	-
Apollo Way	7,300	1/30/83	69	20.5	9.9	-
Bennett Flat	6,200	1/31/83	64	18.5	14.2	-
Davis Creek	5,160	2/01/83	5	1.3	4.9	-
Evergreen Hills Road	5,700	1/30/83	17	4.6	4.2	-
Hennes Pass Junction	6,410	1/31/83	57	17.5	8.6	-
Hobart Mills	5,850	1/31/83	41	13.4	8.8	-
Incline Lake	8,000	1/31/83	95	31.6	19.4	-
Jones Creek	6,000	1/30/83	16	5.2	3.2	-
Mount Rose Resort	8,280	1/31/83	105	34.6	30.9	-
North Star Fire Department	6,320	1/31/83	40	12.4	7.2	-
Reindeer Lodge	7,060	1/30/83	66	19.4	8.1	-
RNR Test Site	6,400	1/30/83	43	12.3	6.4	-
Sky Tavern	7,620	1/31/83	75	25.2	14.8	-
Spooner Summit	7,620	2/01/83	67	18.7	11.1	-
Squaw Valley Fire Department	6,240	1/31/83	70	25.2	17.1	-
Tahoe City	6,240	1/31/83	55	16.8	13.9	-
Tahoe Meadows	8,540	1/31/83	133	44.8	41.7	-
Tamarack Lake	8,820	1/31/83	97	34.6	41.3	-
Third and Incline Creeks	6,235	1/30/83	19	6.1	5.6	-
Thunder Cliff	6,200	1/31/83	58	18.5	15.1	-
Truckee Airport	5,900	1/31/83	26	8.3	7.8	-
Whites Creek	5,670	1/30/83	7	2.1	3.5	-

e Estimated value

a Aerial Marker

b Located on adjacent basin

* Less than 15 year record

** SNOTEL provisional, depth estimated

NS No survey this month

NOTE: All averages based on 1963-1977, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted.

+1963-1977 period.

PRECIPITATION (Inches)

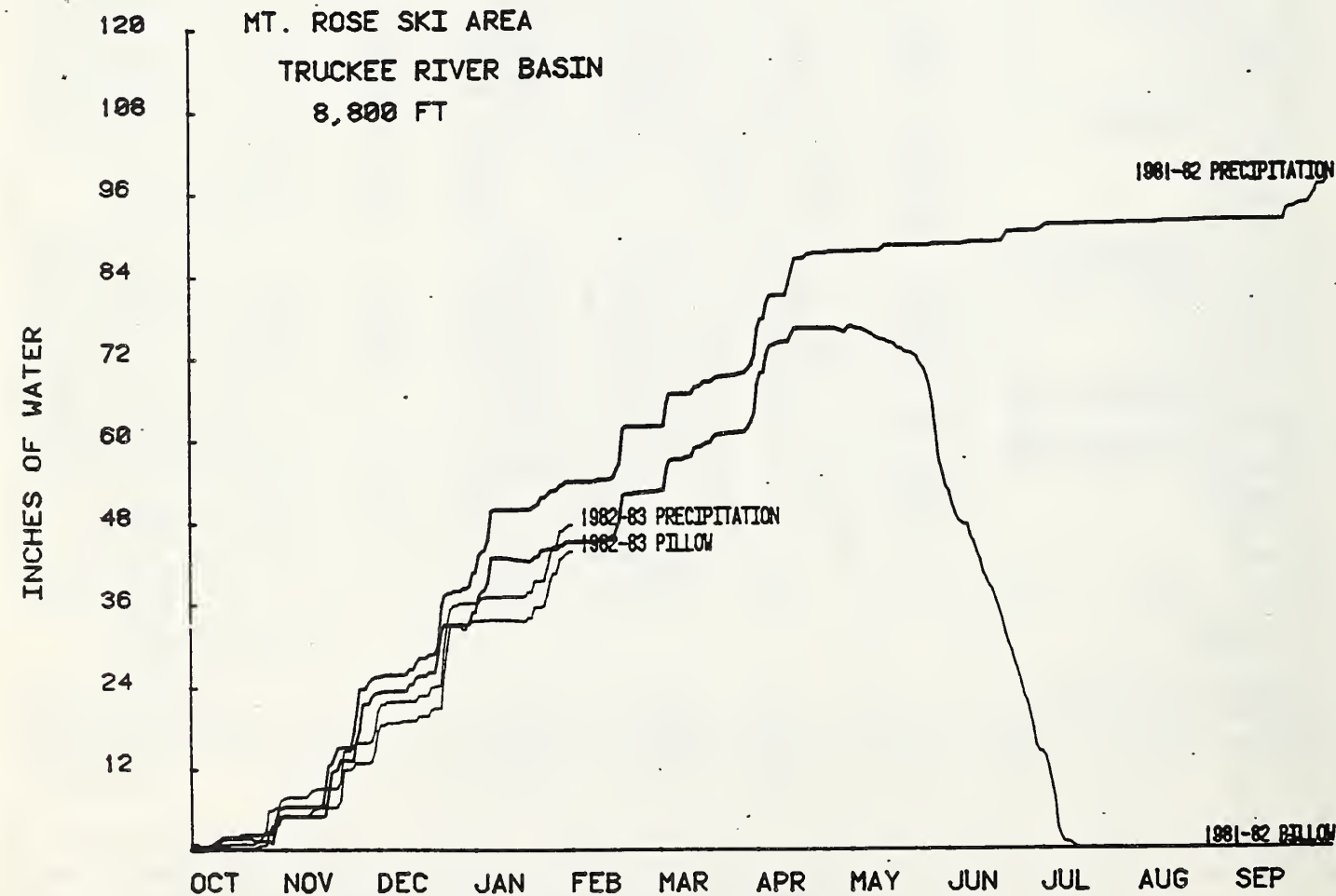
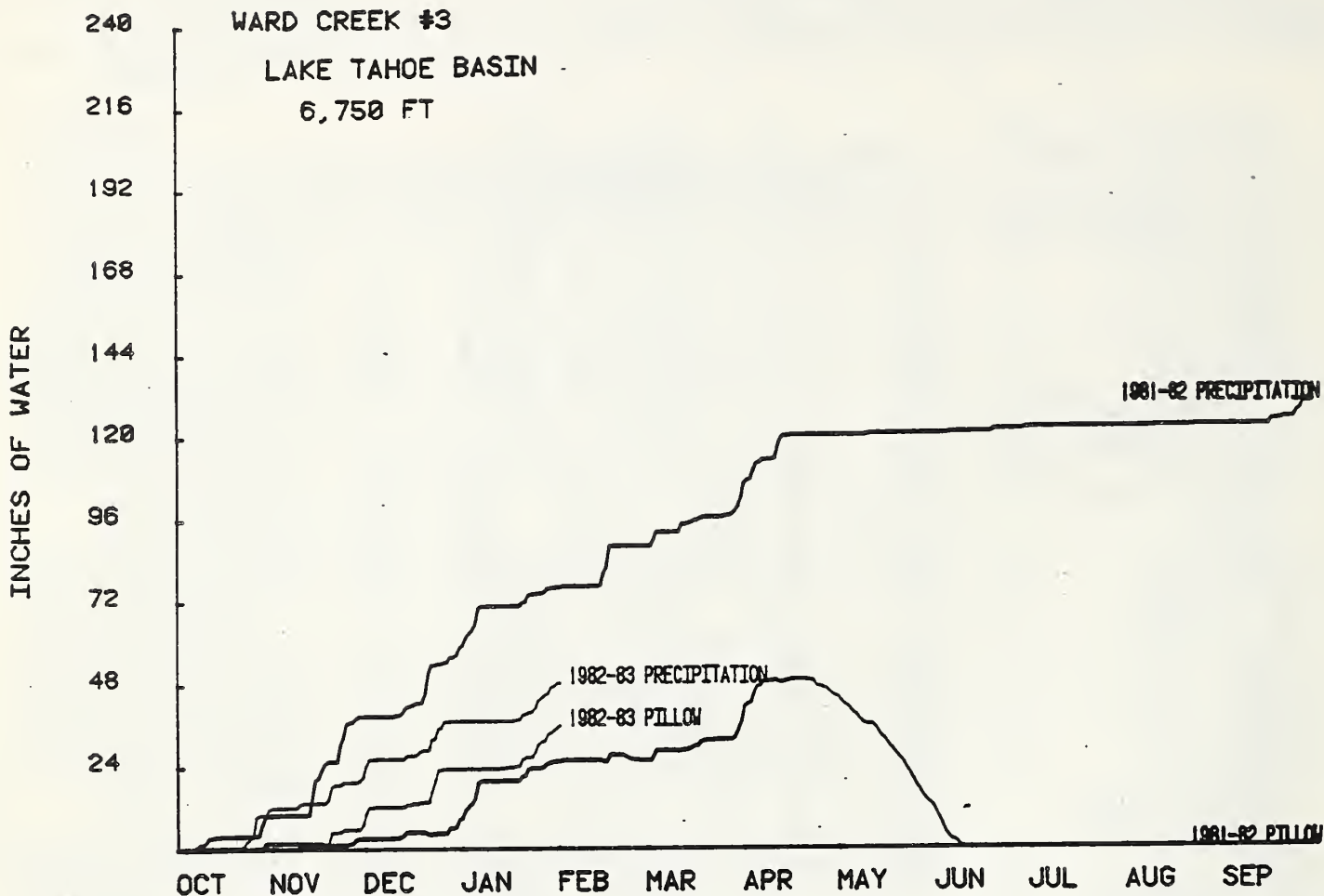
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	February 1 Average
<u>TAHOE-TRUCKEE</u>							
Bio Meadows	8,300	1/31/83	6.2	7.1	27.0	31.6	-
Central Sierra Snow Lab	6,900	1/31/83	11.8	-	47.6	-	-
Echo Peak (CA)	7,800	1/26/83	7.2	9.7	43.8	50.3	40.3
Fallen Leaf (CA)	6,240	1/31/83	7.6	6.7	26.4	35.5	8.7
Hagan's Meadow (CA)	8,000	1/31/83	5.6	8.9	19.4	29.9	17.8
Heavenly Valley (CA)	8,800	1/31/83	7.2	8.3	25.5	28.0	28.9
Independence Camp (CA)	7,000	1/31/83	6.4	9.3	24.4	40.2	27.2
Independence Creek (CA)	6,500	1/31/83	6.5	6.5	26.0	38.9	16.5
Independence Lake (CA)	8,450	1/31/83	9.1	7.9	33.9	41.5	35.2
Marlette Lake	8,000	1/31/83	7.2	9.6	27.3	31.0	19.0
Mount Rose	9,000	1/31/83	6.3	7.4	27.3	30.2	20.8
Mount Rose Ski Area	8,850	1/31/83	11.4	10.9	47.4	54.2	33.3
Rubicon #2 (CA)	7,500	1/31/83	7.9	8.9	33.2	42.9	26.9
Squaw Valley Gold Coast (CA)	7,800	1/31/83	8.1	13.3	42.3	69.5	49.8
Tahoe City Cross (CA)	6,750	1/31/83	7.1	8.6	27.7	42.8	15.4
Truckee #2 (CA)	6,400	1/31/83	7.4	8.1	25.6	37.5	12.4
Ward Creek #3 (CA)	6,750	1/31/83	11.7	14.6	48.2	76.4	48.5
<u>CARSON-WALKER</u>							
Blue Lakes (CA)	8,000	1/31/83	9.9	12.4	40.3	41.8	33.0
Ebbetts Pass #2 (CA)	8,700	1/31/83	11.0	13.4	44.1	45.9	40.3
Leavitt Meadows (CA)	7,200	1/31/83	6.6	7.9	26.0	29.3	23.4
Lobdell Lake (CA)	9,200	1/31/83	6.5	7.5	21.5	18.7	17.0
Pine Nut Creek (CA)	6,600	2/01/83	4.0	2.8	11.0	13.4	-
Poison Flat (CA)	7,900	1/31/83	6.7	-	27.5	28.6	18.9
Sonora Pass Bridge (CA)	8,800	1/31/83	8.8	10.4	32.1	31.9	27.9
Spratt Creek (CA)	6,080	1/31/83	7.0	8.3	29.0	30.4	23.5
Virginia Lakes Ridge (CA)	9,200	1/31/83	7.6	7.5	23.0	20.9	16.5
Wet Meadows #2 (CA)	8,050	1/31/83	10.0	11.3	38.6	42.5	32.6
<u>HUMBOLDT</u>							
Big Creek Summit	8,700	1/31/83	5.7	4.3	14.1	9.3	10.0
Buckskin, Lower	6,700	1/31/83	3.5	2.8	12.5	16.8	10.8
Corral Canyon	8,500	1/31/83	4.8	3.3	15.1	13.8	15.2
Dorsey Basin	8,100	1/31/83	3.8	4.5	16.1	18.8	13.6
Fry Canyon	6,700	1/25/83	-	-	11.9	16.7	-
Granite Peak	7,800	1/31/83	3.3	3.9	17.2	21.4	14.6
Green Mountain	8,000	1/31/83	4.8	3.6	16.7	16.6	12.2
Lamance Creek	6,000	1/31/83	3.3	4.3	15.1	24.8	9.1
Lamoille #3	7,700	1/31/83	3.4	3.1	14.1	16.1	15.1
Rodeo Flat	6,800	1/25/83	-	-	10.5	14.7	-
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	1/31/83	3.0	4.6	14.4	20.3	17.6
Big Bend	6,700	1/31/83	1.6	2.4	7.5	12.2	10.8
Boies Reservoir	5,800	N/R	N/R	-	-	1.0	-
Fawn Creek #2	7,000	1/31/83	4.5	4.0	17.3	21.0	20.2
Ford Corral	6,300	N/R	N/R	-	-	2.2	-
Goat Creek	8,800	1/31/83	1.6	4.7	9.4	19.0	16.7
Jack Creek #2, Upper	7,250	1/31/83	3.2	3.9	15.0	20.7	13.4
Jacks Peak	8,420	1/31/83	5.3	6.5	22.5	27.5	-
Laurel Draw	6,700	1/31/83	2.3	3.0	11.9	18.6	12.1
Pole Creek Ranger Station	8,330	1/31/83	1.5	3.3	8.4	11.5	11.4
Seventy Six Creek	7,100	1/31/83	1.8	3.2	10.0	14.7	12.3
Taylor Canyon	6,200	1/31/83	1.1	1.0	4.6	8.5	6.6
<u>EASTERN NEVADA</u>							
Berry Creek	9,100	1/31/83	3.4	3.5	11.4	13.4	14.0
Hole-in-Mountain	7,900	1/31/83	3.0	4.6	13.6	25.4	-
Ward Mountain	8,900	1/31/83	3.6	4.5	12.8	12.8	11.4
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass (CA)	7,100	1/31/83	2.4	3.1	17.4	24.5	20.1
Disaster Peak	6,500	1/31/83	2.7	2.9	14.2	18.3	12.8
Dismal Swamp #2 (CA)	7,050	1/31/83	5.7	6.2	27.6	39.8	42.0
Ferguson Ranch	5,560	N/R	N/R	2.9	N/R	6.0	-
49 Mountain	6,000	1/28/83	1.0	1.8	7.5	1.8	-
N/R = NOT READ THIS MONTH.							

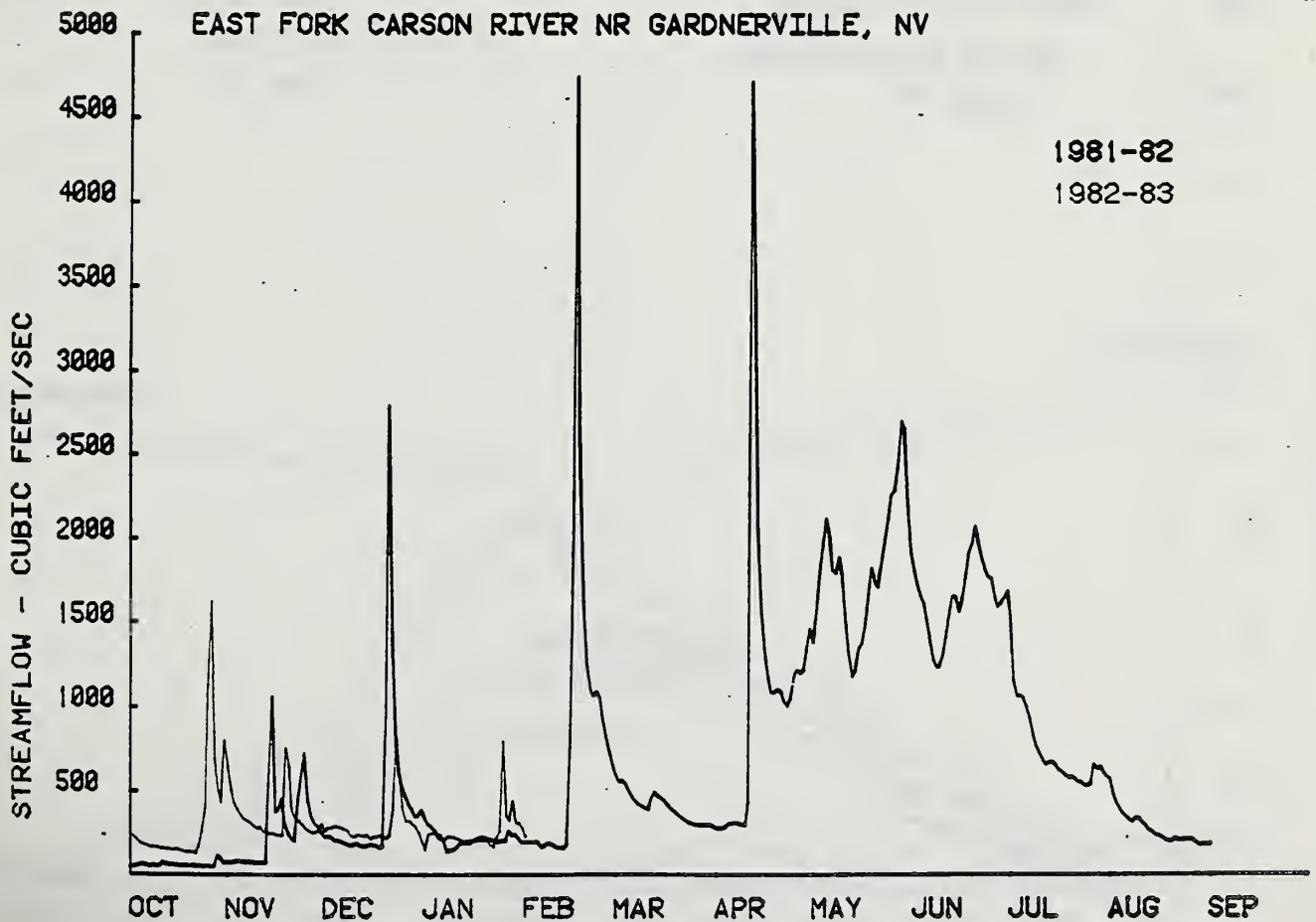
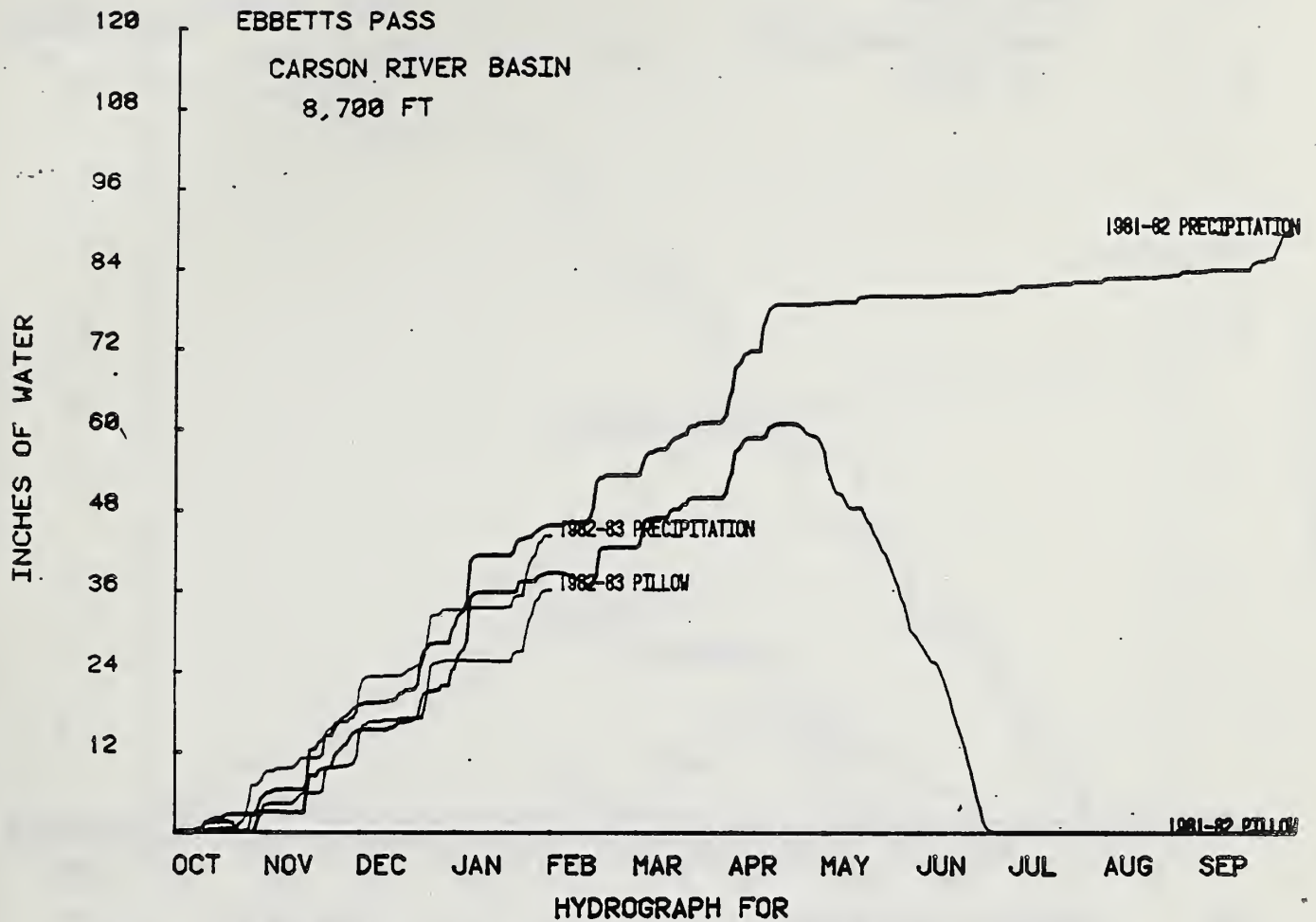
All data SNOTEL provisional except: Ferguson Ranch, Fry Canyon, 49 Mountain
Pine Nut Creek and Rodeo Flat.

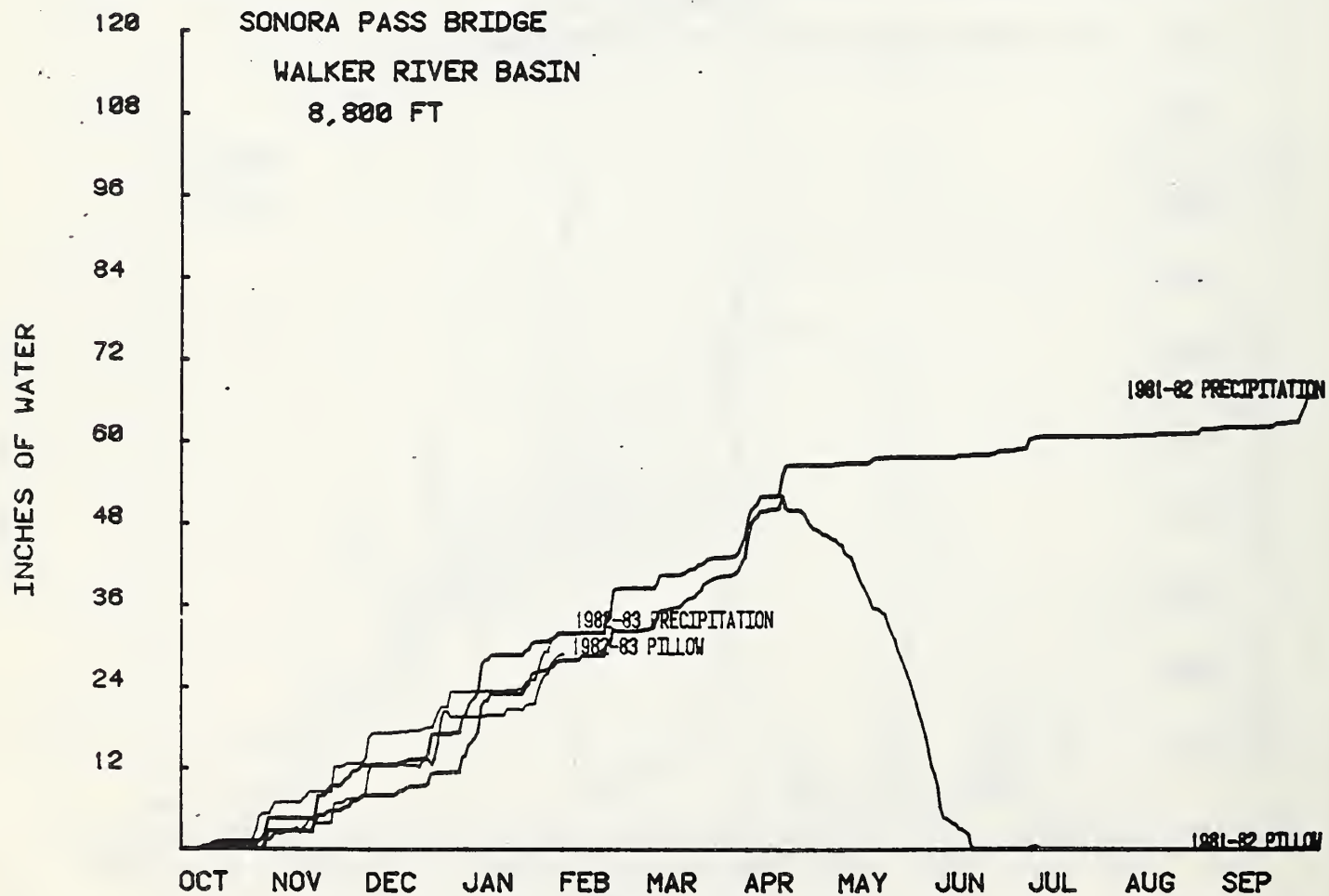
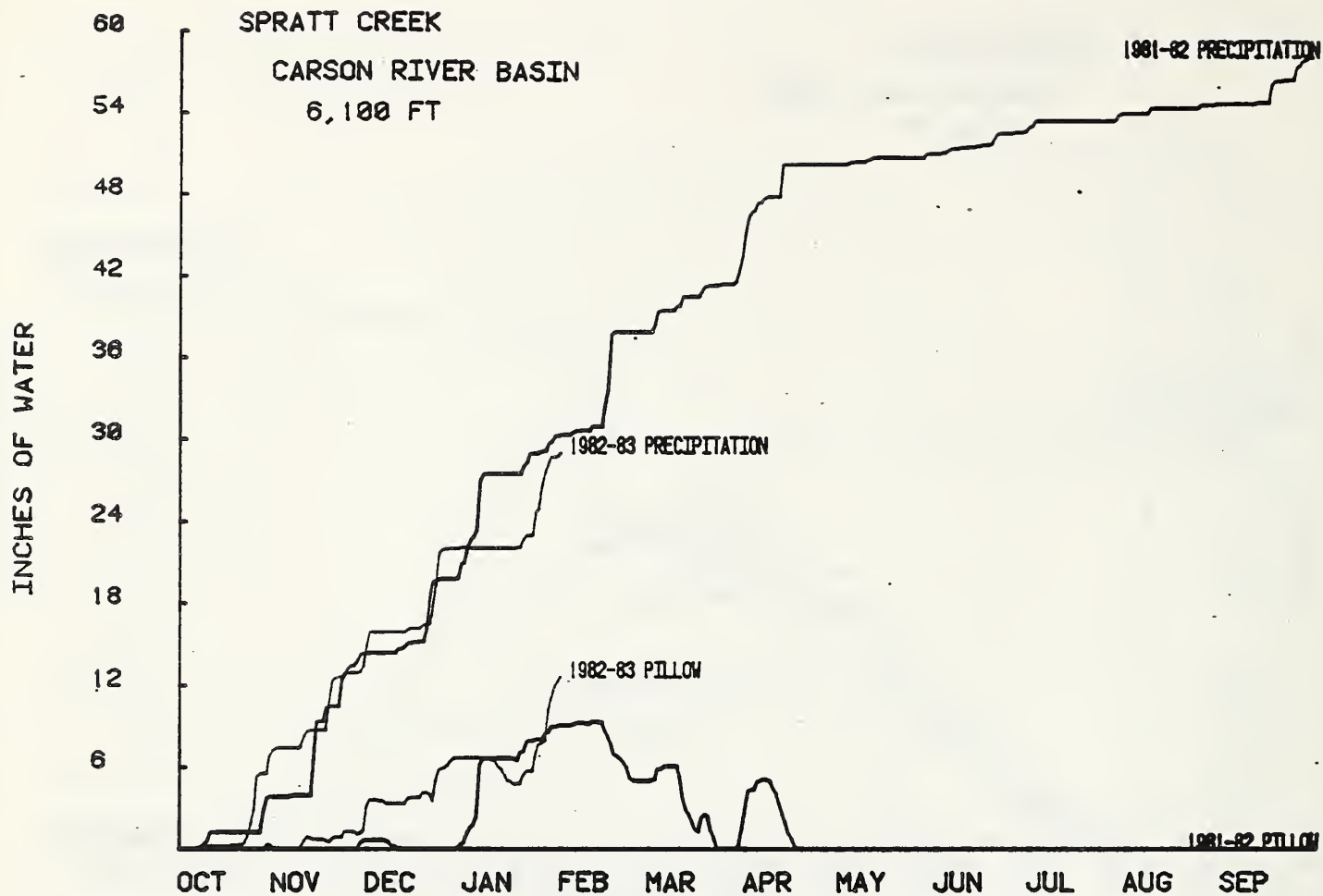
PRECIPITATION (Inches)

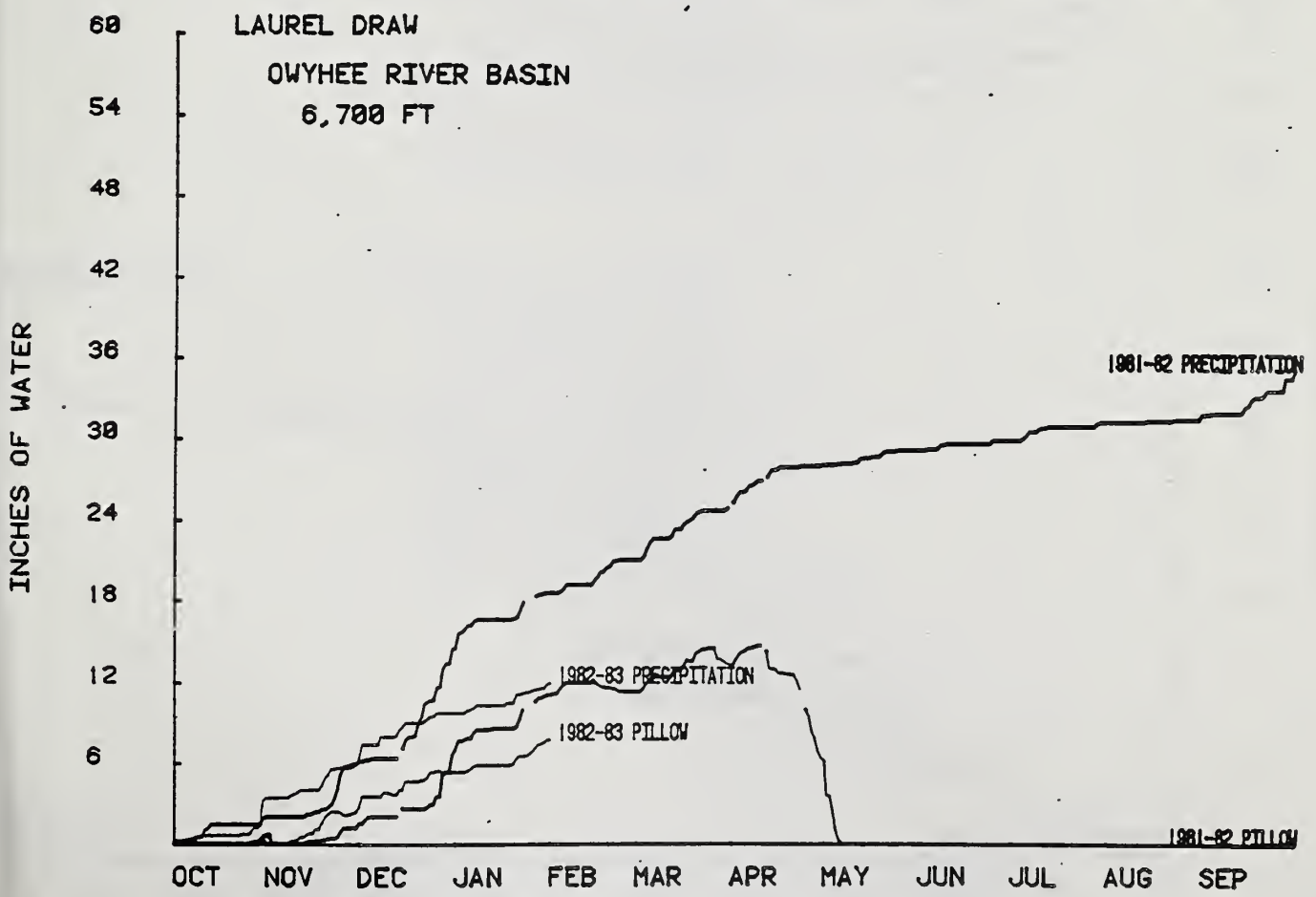
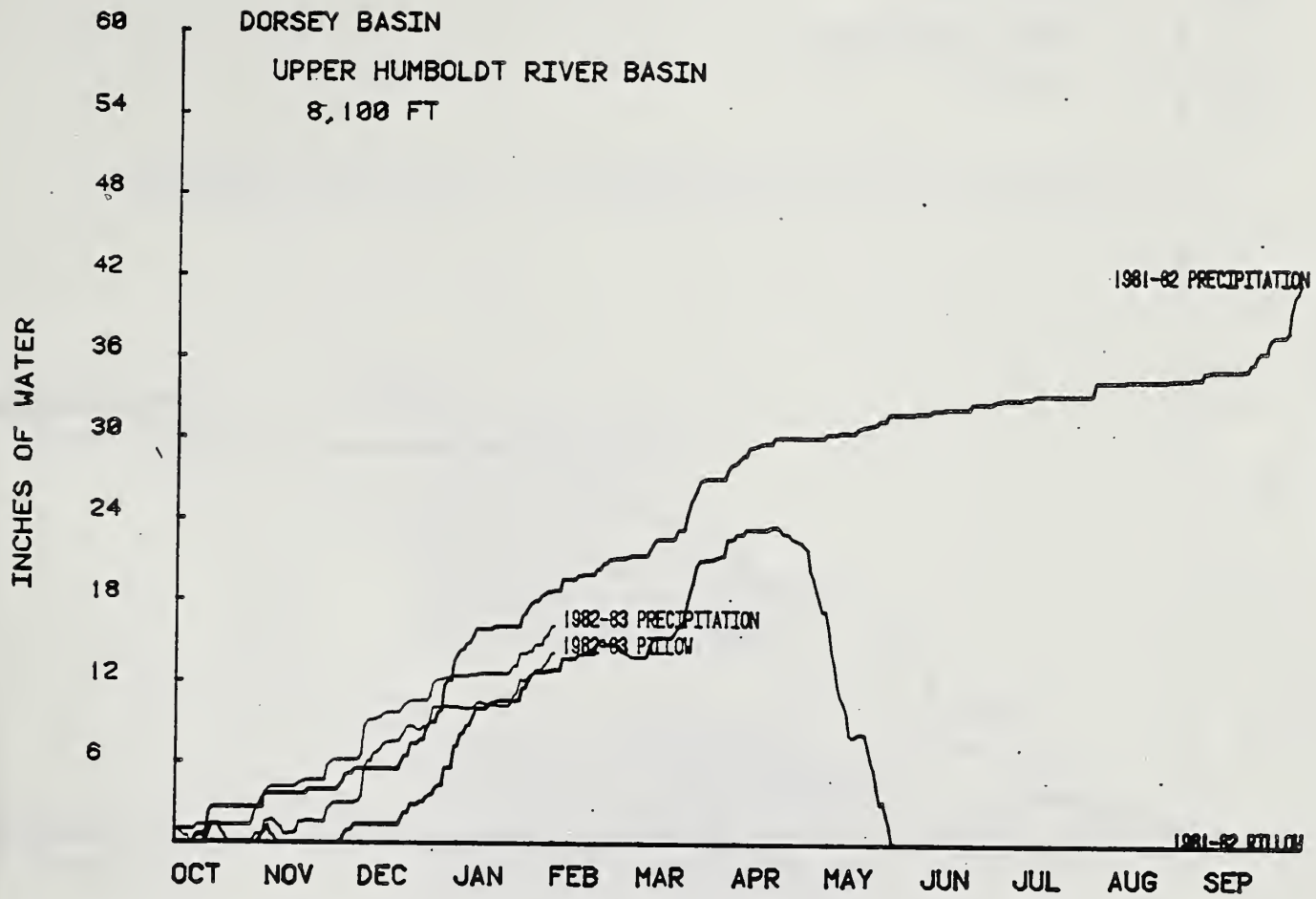
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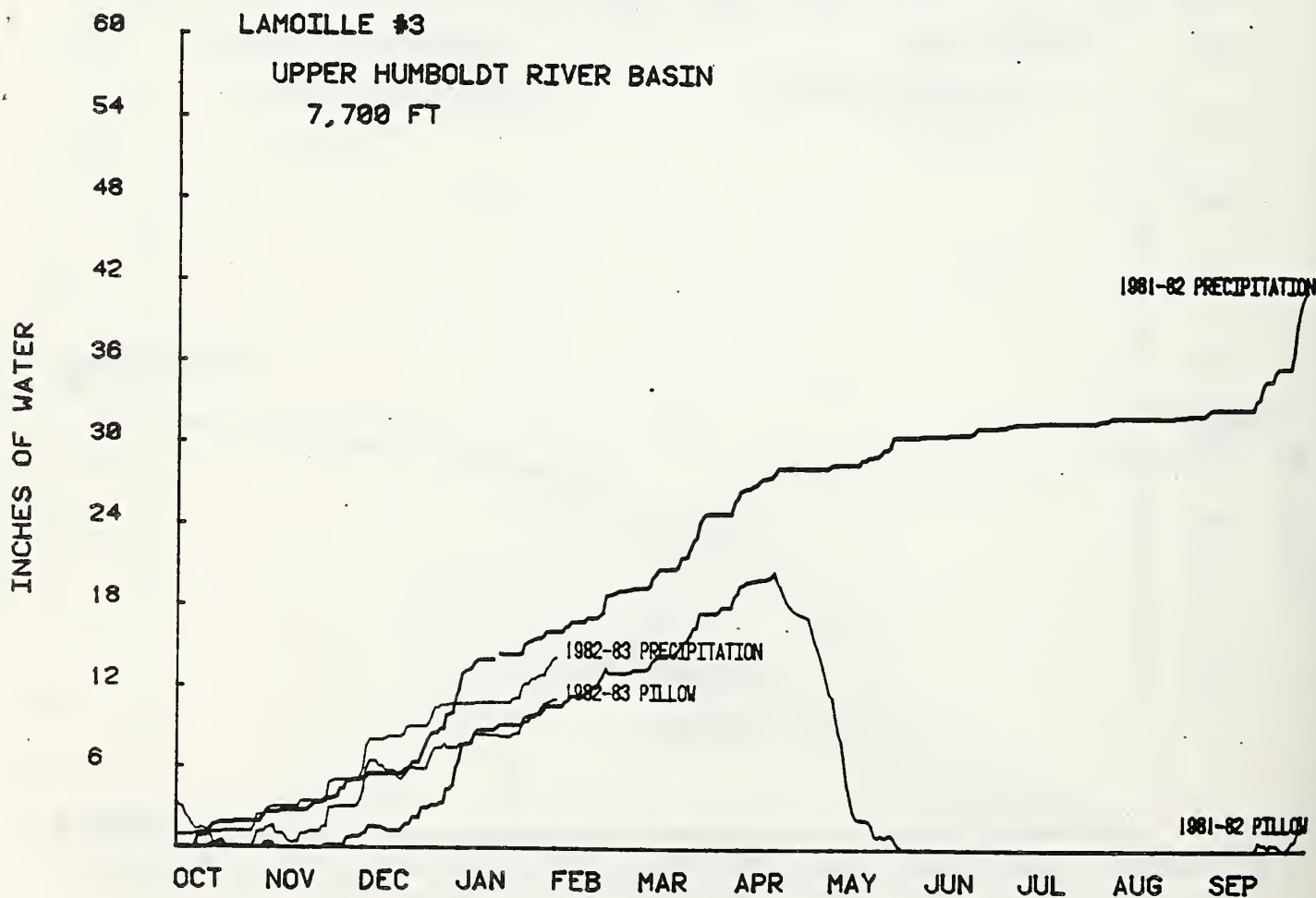
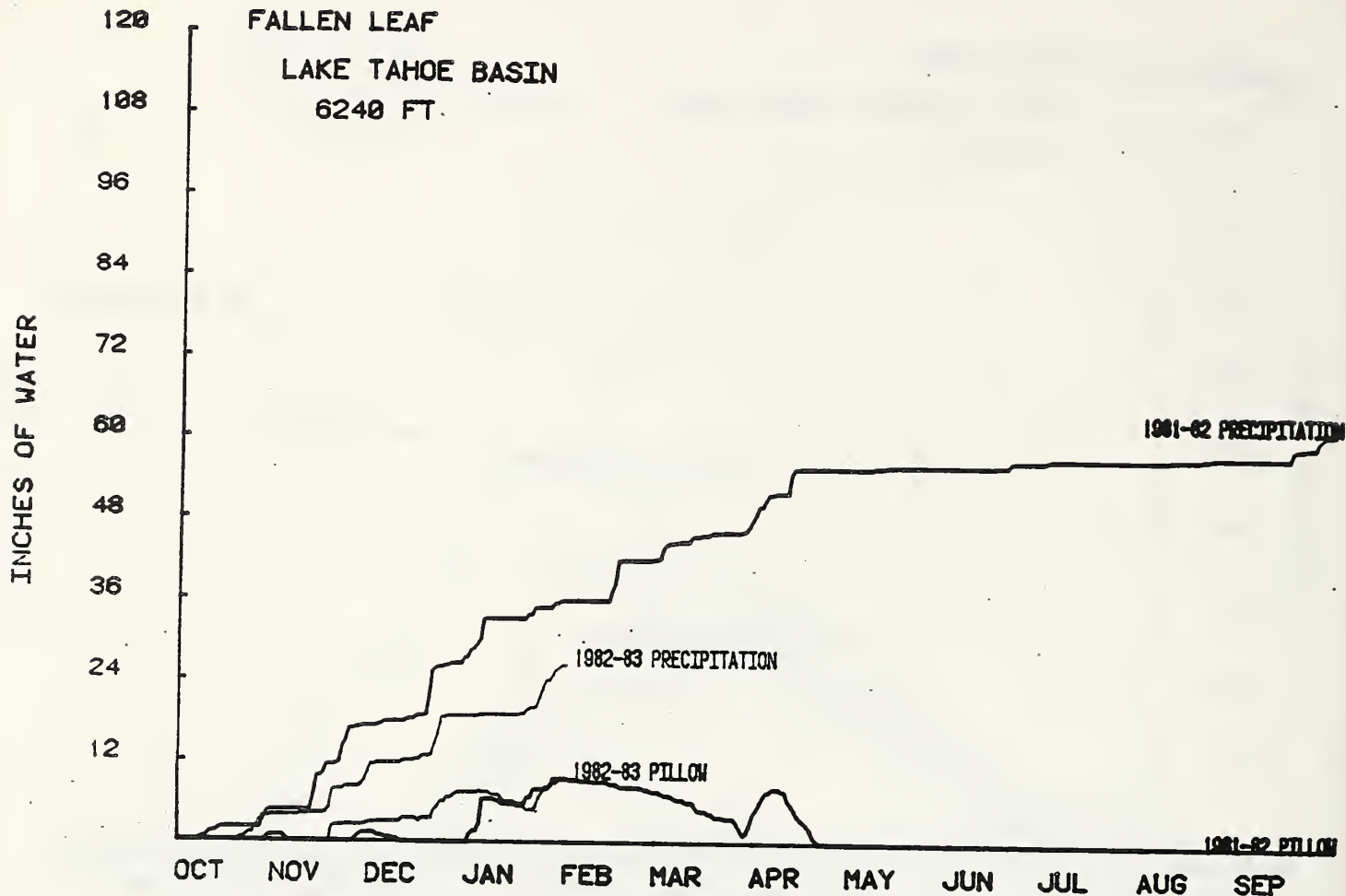
DRAINAGE BASIN AND PRECIPITATION GAGE LOCATION		ELEVATION	Month's Precip.	Last Year	*Normal	This Year	Last Year	*Normal
CURRENT INFORMATION								
<u>TRUCKEE-TAHOE</u>								
Boca	5,575	5.31	5.42	4.34	22.57	22.85	12.24	
Glenbrook	6,350	4.79	5.43	4.23	17.96	17.25	10.52	
Incline Village	6,550	5.49	7.28	5.02	23.51	24.96	11.71	
Reno	4,404	1.72	1.20	1.21	6.12	5.02	3.40	
Sierraville	4,975	6.15	5.02	5.31	24.00	32.64	15.96	
Tahoe City	6,230	6.49	9.54	6.78	26.23	39.88	19.24	
Truckee Ranger Station	5,995	5.82	8.20	6.67	25.60	32.83	18.60	
<u>CARSON-WALKER</u>								
Bridgeport Ranger Station	6,560	2.80	.65	2.33	10.03	4.80	6.55	
Carson City	4,651	2.96	3.61	2.27	10.16	10.05	6.54	
Fallon Experiment Station	3,965	.99	.91	.42	4.08	2.12	1.57	
Hawthorne	4,215	.79	.04	.37	2.07	.98	1.45	
Minden	4,720	3.10	1.84	1.47	7.99	5.28	4.50	
Twin Lakes	7,829	11.26	10.93	9.58	37.12	39.00	26.68	
Woodfords	5,971	5.56	4.90	3.92	21.58	20.04	12.08	
Yerington	4,375	.88	.65	.57	3.09	1.76	2.05	
<u>HUMBOLDT</u>								
Austin	6,605	3.49	3.01	.89	7.16	5.30	3.89	
Battle Mountain	4,530	.39	.03	.62	2.95	1.98	2.74	
Deeth	5,338	2.14	.73	1.13	7.14	6.45	3.22	
Elko	5,075	1.73	.85	1.16	5.48	5.22	3.96	
Emigrant Pass	5,755	2.03	1.19	1.42	5.94	5.40	4.71	
Jiggs	5,760	2.50	1.42	1.02	6.28	3.56	4.03	
Lamoille	5,800	N/A	1.17	1.43	*	6.42	6.20	
Lovelock FAA	3,900	.68	.52	.49	3.45	2.34	1.80	
Wildhorse Reservoir	6,226	.90	*	*	*	*	*	
Paradise Valley	4,675	1.47	1.23	1.04	5.73	9.82	5.26	
Wells	5,650	1.02	.80	1.02	3.99	6.19	4.02	
Winnemucca	4,301	1.19	.30	.97	4.31	4.42	3.53	
<u>SNAKE-OWYHEE</u>								
Contact	5,365	.80	.95	.95	3.09	5.50	2.77	
Mountain City	5,620	.54	.67	*	4.50	6.67	*	
Owyhee	6,491	1.15	.90	1.41	5.71	6.50	5.39	
Tuscarora	6,170	1.90	2.13	1.67	8.06	10.92	5.69	
<u>EASTERN NEVADA</u>								
Arthur	6,280	1.62	2.40	1.68	7.18	9.41	5.78	
Ely	6,253	1.41	1.06	.64	4.18	5.16	2.61	
Montello	4,880	1.12	.75	.52	3.39	3.38	2.34	
Pequop	6,030	1.01	1.17	*	4.68	7.03	*	
Ruby Lake	6,012	1.86	1.32	1.22	5.65	7.79	4.94	
<u>NORTHERN GREAT BASIN</u>								
Alturas Ranger Station	4,400	.61	.80	1.71	5.44	7.51	5.97	
Cedarville	4,670	.42	1.13	1.82	4.76	11.68	7.55	
Ft. Bidwell	4,498	1.37	1.75	2.41	8.65	13.78	8.01	
Orovada	4,310	1.06	1.43	1.22	3.76	6.38	4.40	
Susanville	4,148	3.11	1.62	2.78	10.33	12.84	8.27	
<u>CENTRAL GREAT BASIN</u>								
Tonopah	5,426	.92	.62	.30	3.04	3.03	1.31	
<u>LOWER COLORADO RIVER</u>								
Caliente	4,402	1.13	.51	.76	3.62	1.46	3.19	
Las Vegas	2,162	.43	.09	.45	1.79	.53	1.47	
Pioche	6,165	2.45	1.59	1.47	6.17	3.01	5.00	
Bishop	4,118	1.82	1.43	1.20	6.04	2.93	3.09	
* Not Available								
T Trace								
Normals are for 30 year period of 1941-1970.								











AGENCIES COOPERATING IN COLLECTING DATA CONTAINED IN THIS BULLETIN

FEDERAL

Agricultural Research Service
Bureau of Reclamation
Fish and Wildlife Service
Forest Service
Geological Survey
Soil Conservation Service
U. S. District Court - Federal Water Master
NOAA, National Weather Service

STATE

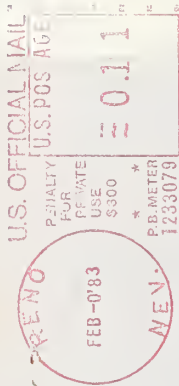
California Cooperative Snow Surveys
California Department of Parks and Recreation
California Department of Water Resources
Colorado River Commission of Nevada
Idaho Cooperative Snow Surveys
Nevada Association of Conservation Districts
Nevada Department of Conservation & Natural Resources
 Division of Water Resources
 Nevada State Forester
Oregon Cooperative Snow Surveys
University of Nevada, Desert Research Institute
Utah Cooperative Snow Surveys
White Mountain Research Station, Univ. of California

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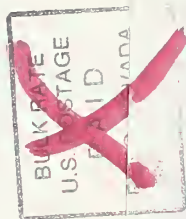
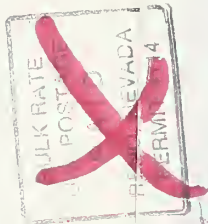
Amalgamated Sugar Company
Kennecott Copper Corporation
Nevada Irrigation District
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Pacific Gas and Electric Company
Pershing County Water Conservation District
Sierra Pacific Power Company
Truckee - Carson Irrigation District
Walker River Irrigation District
Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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with the Snow Survey"*

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